

Assessment and diagnosis of poisoned patients

Assessment of level of consciousness, ventilation and circulation

- What is the Glasgow Coma Scale score?
- Are laryngeal reflexes present?
- Is ventilatory insufficiency present?
- What are the pulse and blood pressure?

History

- Toxicological, medical, psychiatric and social

Circumstantial evidence

- Suicide note
- Circumstances in which patient was found

Examination

See [Table 2](#)

Antidotes

- Naloxone
- Flumazenil

Toxicological investigations

- Specific
- Screening

Non-toxicological investigations

- Haematology
- ECG
- Radiology

Table 1

poisoning can usually be made from the history. In unconscious patients, a history from friends or relatives is helpful, and the diagnosis can often be inferred from tablet bottles or a 'suicide note' brought by the paramedics, or made by exclusion of other causes. Self-poisoning must always be considered in the differential diagnosis in any patient with an altered level of consciousness.

Acutely poisoned patients may be emotionally and psychi- atrically distressed, and require competent, sympathetic assessment if essential information is not to be missed. It is important to try to establish the nature of the substance taken, the amount involved, the route of exposure and the time of exposure, so that the clinical course can be anticipated and the risk assessed.

Statements about the nature and amount of what has been taken should be regarded with clinical suspicion, however, because these are often inconsistent with laboratory analysis of blood or urine.^{6,7} Patients may not use generic drug names, and it is important to clarify the specific preparation involved because the composition of formulations with similar names can differ. Furthermore, self-poisoning is often an impulsive act involving swallowing the contents of the first bottle or blister pack that comes to hand; sometimes, the drugs used may have been prescribed for another individual. Few patients count the number of tablets taken; the amount is often estimated in unquantifiable terms such as 'handfuls' or 'mouthfuls', although the patient may be able to recall the number of strips or packets. When the time of exposure is important (e.g. paracetamol poisoning), the accuracy can be improved by relating events to activities of daily life (e.g. the time of a television programme).

Assessment of the psychological aspects of self-poisoning is covered on pages 103–105 of this issue.

Children

A clear history is unlikely to be obtained from the child, older siblings or a parent. Statements about amounts taken are usually unreliable because the quantities present in containers before such incidents are often unknown.

Circumstantial evidence

Circumstantial evidence is important in establishing a diagnosis of acute poisoning when the patient is very young, has communication or comprehension difficulties or is unconscious.

Children may be found eating potential poisons or with tablets or other materials around their mouth or on their clothing. Similar evidence may be found on unconscious adults, or there may be empty drug containers, tablets or capsules nearby. A lack of personal effects to indicate the identity of an unconscious adult should arouse suspicion of a drug overdose. Protestations of relatives that an individual would never take an overdose are usually incorrect.

Suicide notes are reliable indicators of self-poisoning in the absence of evidence of physical violence as a cause of coma.

Examination

Physical signs are particularly important when trying to elucidate the cause of unexplained coma. A diagnosis of acute poisoning can never be made on the basis of a single physical sign, but there are typical clusters of signs that make a diagnosis of poisoning with specific drugs very likely ([Table 2](#)). Head injury should be excluded as a contributing or causative factor in comatose patients.

General observations can reveal useful information. For example, solvents or alcohol may be smelt on the breath, needle track marks can reveal undisclosed illicit substance abuse, atypical bruising can warn of domestic or other violence, and the stigmata of alcoholic liver disease may be apparent.

Skin blisters

Skin blisters can be found in poisoned patients who are, or have been, unconscious.^{8,9} Such lesions are not diagnostic of specific poisons, but are sufficiently common in poisoned patients (and sufficiently uncommon in patients unconscious from other causes) to be of diagnostic value.

Neurological signs

Lateralizing neurological signs

With the exception of transient inequality of pupil size, lateralizing neurological signs effectively exclude a diagnosis of acute poisoning unless they can be explained by a pre-existing illness.

Pyramidal tract signs

The usual features of pyramidal tract involvement (hypertonia, hyper-reflexia, extensor plantar responses) are commonly found after poisoning with tricyclic antidepressants and other drugs with marked anticholinergic actions (e.g. the older antihistamines). However, all of these signs may be abolished in deep coma.

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